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L1	7	target adj design adj model	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/14 11:48
L2	0	("6691078").URPN.	USPAT	OR	OFF	2005/09/14 11:51
L3	0	("6691078").URPN.	USPAT	OR	OFF	2005/09/14 11:51
L4	14	("5394347"   "5615137"   "5910897"   "5926622"   "5946481"   "5966516"   "6044211"   "6131078"   "6163876"   "6178394"   "6185516"   "6275976"   "6311293"   "6353896").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/14 11:52

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	14	("5394347"   "5615137"   "5910897"   "5926622"   "5946481"   "5966516"   "6044211"   "6131078"   "6163876"   "6178394"   "6185516"   "6275976"   "6311293"   "6353896").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/14 17:20
L5	1057	714/25.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/14 17:20
L6	678	L5 and @ad<"20010112"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/14 17:21
L7	2	L6 and model adj check\$3	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/14 17:22
L8	418	714/45.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/14 17:22
L9	307	L8 and @ad<"20010112"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/14 17:22
L10	58	L9 and model	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/14 17:28
L11	0	patrh adj expression\$1	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/14 17:28
L12	252	path adj expression\$1	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/14 17:29
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acting on objects 4]Some kind of **path expressions** and production rules guarded by events may

A Reflective Approach to Process Model Customization, Enactment and Evolution Philippe  
 processes are enacted instances of process **models**. Process **models** are themselves instances of  
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or queries must be associated with a precise **path expression** in order to traverse the nested structure of  
 as an interesting specification formalism for **modeling** operational requirements. They encourage the  
 seen as an interesting specification formalism for **modeling** operational requirements in object-oriented  
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[Implementation Aspects of an Object-Oriented DBMS](#) - Dogac (1995) (Correct) (2 citations)  
 and search-expression may include **path expressions** and methods. MOOD allows dynamic schema  
 engine. A detailed description of the MOOD data **model** and MOODSQL is given in [Dog 94a, Dog 94c, Ozk  
 94a, Dog 94c, Ozk 93a, Ozk 93b]In the MOOD data **model**, the basic data Figure 2. Display of the  
 ftp.srdc.metu.edu.tr/pub/mood/papers/sigmod.ps.Z

[A Heuristic Approach for Optimization of Path Expressions](#) - Cetin Ozkan (1995) (Correct) (2 citations)  
 A Heuristic Approach for Optimization of **Path Expressions** Cetin Ozkan, Asuman Dogac and Cem  
 common subexpressions. In section 2, the cost **model** is presented and the formulas for the selectivity  
 Finally, Section 6 contains the conclusions. 2 Cost **Model** In the object **model** [Atk 92] used in this paper,  
 ftp.srdc.metu.edu.tr/pub/mood/papers/heuristic\_dexa\_95.ps.Z

[How to Write F-Logic Programs in FLORID](#) - A.. - Frohn.. (1997) (Correct) (1 citation)

.17 7 Path Expressions 19 7.1 Nesting of **Path Expressions** and  
 ftp.informatik.uni-freiburg.de/pub/florid/tutorial.ps.gz

[A Join Algorithm Utilizing Multiple Path Indexes in..](#) - Cho, Lee, Yoon, Whang (1996) (Correct) (1 citation)  
 various types of path indexes -indexes on **path expressions** -have been proposed for efficient  
 In this paper, we use the object-oriented query **model** proposed by Kifer et al.11]An important  
 et al.11]An important feature of Kifer's query **model** is the extended **path expression**: a A pred1 B  
 dblab.kaist.ac.kr/Publication/Ps/eccs96c.ps

[Query Processing in Object-Oriented Database Systems](#) - Özsü, Blakeley (1994) (Correct) (1 citation)  
 Accessing such complex objects involves **path expressions**. The optimization of **path expressions** is a  
 The second is the optimization of **path expressions**. **Path expressions** represent traversal paths  
 has seen significant research in defining query **models** (including calculi, algebra and user languages)  
 web.cs.ualberta.ca/~database/publications/ozsu/wonkim/kimchap.ps.Z

[A Java Application Programming Interface to a Multimedia..](#) - Böll, Wäsch (1996) (Correct) (1 citation)  
 method calls, of complex data types, and of **path expressions** in VQL queries. 2.3 VODAK transaction  
 for integrated DBMS support, i.e.the integrated **modeling**, management, and interactive presentation of  
 DBMSs (OODBMS) form a suitable basis for **modeling**, storage, and management of different media  
 ftp.darmstadt.gmd.de/pub/oasys/reports/P-96-24.ps.Z

[FLORID: A DOOD-System for Querying the Web](#) - Himmeröder, Lausen, Ludäscher.. (1998) (Correct)  
 (1 citation)

classes. Moreover, FLORID extends F-logic by **path expressions** [FLU94] which turn out to be particularly  
 while object-oriented features allow a flexible **modeling** of semistructured and partial information. 2.  
 languages for wrappers and mediators. 3. The Web **Model** of FLORID distinguishes between the class url of  
 www.informatik.uni-freiburg.de/~dbis/Publications/98/edbt98-florid-demo.ps.gz

[Genetic Algorithms for Optimal Logical Database Design](#) - van Bommel, Lucasius, van.. (1994) (Correct)

(1 citation)

allow an elegant verbalization of queries by **path expressions**, built from names of object types and role viz. the transformation of conceptual data **models** into efficient internal representations. Although process of information analysis. Independent of the **modelling** technique used (OO, ER, NIAM)the <ftp.cs.kun.nl/pub/SoftwEng.InfSyst/articles/GenAlgDbOpt.ps.Z>

Using Graph Transformation Techniques for Integrating.. - Faulstich (1998) (Correct)

data by using for instance regular **path expressions** or automatic type coercion. Examples of the access to it. The HyperView methodology **models** Web Sites and their HTML pages as graphs from of views. We present the clustered graph data **model** (CGDM) used in the HyperView system. Views are [www.inf.fu-berlin.de/~faulstic/pub/tagt98.ps.gz](http://www.inf.fu-berlin.de/~faulstic/pub/tagt98.ps.gz)

Query Modification in Object-Oriented Database Federations - Vermeer, Apers (Correct)

features such as queries involving **path expressions** and nesting. We show how properties of the nesting. We show how properties of the OO-style of **modelling** relationships through object references can the current popularity of the object-oriented **model** as a canonical data **model** in such federations [wwwis.cs.utwente.nl:8080/isdoc/confpaper/vermeer.coopis97.accepted.ps.gz](http://wwwis.cs.utwente.nl:8080/isdoc/confpaper/vermeer.coopis97.accepted.ps.gz)

Path Constraints from a Modal Logic Point of View - Alechina, de Rijke (Correct)

and Kleene star .They are referred to as **path expressions**. Firstorder logic extended with the It is generally agreed that the appropriate data **model** for semistructured data is an edge-labelled 2 introduces some background information on data **models**, query languages and logical formalisms used [www.cs.nott.ac.uk/~nza/paths.ps.gz](http://www.cs.nott.ac.uk/~nza/paths.ps.gz)

The Decidability of Some Restricted Implication Problems.. - Buneman, Fan, Weinstein (1997) (Correct)

the optimization techniques for generalized **path expressions** in object-oriented databases developed by path inclusion constraints, P ,for the graph data **model**. These path constraints are capable of expressing we first recall the definitions of the data **model** and the constraint language P from [10]and then [ftp.cis.upenn.edu/pub/papers/db-research/tr9715.ps.gz](http://ftp.cis.upenn.edu/pub/papers/db-research/tr9715.ps.gz)

Type Inference for Queries on Semistructured Data (Extended.. - Milo, Suciu (1999) (Correct)

for semistructured data, allowing regular **path expressions** and joins (both reviewed in Section 2)A of their attributes stored with the object. The **model** has proven successful in a number of applications DTD's, and these query languages. 2 Background Data Model Our semistructured data **model** is an ordered [ftp.math.tau.ac.il/pub/milo/pods99.ps.Z](http://ftp.math.tau.ac.il/pub/milo/pods99.ps.Z)

FLORID - User Manual Version 2.0 - Frohn, Himmeröder, Kandzia.. (1997) (Correct)

non-monotonic inheritance and furthermore **path expressions** [6] which can also be used for anonymous of the structural aspects of object-oriented data **modeling**. Contrasting other approaches, e.g. 8]GULOG To learn something about the language and data **modeling** with F-logic the reader is referred to the [ftp.informatik.uni-freiburg.de/pub/florid/manual.ps.gz](http://ftp.informatik.uni-freiburg.de/pub/florid/manual.ps.gz)

Chase and Axioms for PC Queries and Dependencies - Popa, Tannen (1998) (Correct)

rest of the paper. It describes well-defined **path expressions**, well-defined tableaux, and gives the v :x !! that can be extended to **path expressions** and path conjunctions over ~x (i.e. v(R) R I dependencies and equivalences beyond the relational **model** on which we use the equational chase defined [www.cis.upenn.edu/~val/tr-MS-CIS-98-34.ps](http://www.cis.upenn.edu/~val/tr-MS-CIS-98-34.ps)

Multimedia User Interfaces - Götze, Boles, Eirund (Correct)

of multimedia objects is specified by **path expressions** including path operators which define the media. Discrete media imply a transitional **model** of dialog control. Each event caused by an user the integration of continuous media causes this **model** to become inadequate because actions like [www-is.offis.uni-oldenburg.de/~dibo/paper/..../paper/mm-userinterfaces.ps.gz](http://www-is.offis.uni-oldenburg.de/~dibo/paper/..../paper/mm-userinterfaces.ps.gz)

Vql : A Visual Query Language For Uniform Database Access - Yuksel Alp (Correct)

User Friendliness Considerations 95 15.1 Long Path Expressions :

It facilitates querying databases of several **models** in a uniform and consistent way. We demonstrate 2 2 VQL Through Examples -The Relational Model 5 2.1 Safety :

[www.eecs.uic.edu/~yaslando/mt.ps.Z](http://www.eecs.uic.edu/~yaslando/mt.ps.Z)

Grammar Based Information Modelling - Hofstede, Proper, van der Weide (1994) (Correct)

semantics of LISA-D is expressed in terms of **path expressions**, a (for this purpose) convenient variant of in [HPW93] by means of a translation to **path expressions**. **Path expressions** form the semantical base for Grammar Based Information **Modelling** A.H.M. ter Hofstede 1 and H.A. Proper 23 [ftp.cs.kun.nl/pub/SoftwEng.InfSyst/articles/ORMGrammar.ps.Z](http://ftp.cs.kun.nl/pub/SoftwEng.InfSyst/articles/ORMGrammar.ps.Z)

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CH2897-7/90/0000/0428\$01.00 © 1990 IEEE 4214 EM Clarke School of Computer Science ...

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IEEE 394 Thomas A. Henzinger Computer Science Department, Cornell University ...

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KL McMillan - 1992 - Pittsburgh, Pa.: School of Computer Science, Carnegie Mellon ...  
Symbolic **model checking** : an approach to the state explosion problem. By: K L McMillan.  
Type: English : Book : Non-fiction. Publisher: Pittsburgh, Pa. ...  
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R Alur, C Courcoubetis, DL Dill - Information and Computation, 1993 - portal.acm.org  
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**1 An Efficient Algorithm for Real-Time Symbolic Model Checking**

J. Froessl, Th. Kropf, J. Gerlach

 March 1996 **Proceedings of the 1996 European conference on Design and Test**

 Full text available: [pdf\(813.38 KB\)](#)
[Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [citations](#)


The verification of real-time properties requires model checking techniques for quantitative temporal structures and real-time temporal logics. However, up to now, most of those problems were solved by a translation into a standard CTL model checking problem with unit-delay structures. Although usual CTL model checkers like SMV can be used then, the translation leads to large structures and CTL formulas, such that the verification requires large computation times and only small circuits can be v ...

**Keywords:** formal verification, model-checking, real-time systems, quantitative temporal logic

**2 Another Look at LTL Model Checking**

Edmund M. Clarke, Orna Grumberg, Kiyoharu Hamaguchi

 February 1997 **Formal Methods in System Design**, Volume 10 Issue 1

 Full text available: [Publisher Site](#)

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We show how LTL model checking can be reduced to CTL model checking with fairness constraints. Using this reduction, we also describe how to construct a {\em symbolic} LTL model checker that appears to be quite efficient in practice. In particular, we show how the SMV model checking system developed by McMillan [16] can be extended to permit LTL specifications. The results that we have obtained are quite surprising. For the specifications wh ...

**Keywords:** automatic verification, binary decision diagrams, model checking, temporal logic

**3 Refining Model Checking by Abstract Interpretation**

Patrick Cousot, Radhia Cousot

 January 1999 **Automated Software Engineering**, Volume 6 Issue 1

 Full text available: [Publisher Site](#)

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Formal methods combining abstract interpretation and model-checking have been considered for automated analysis of software.

In abstract model-checking, the semantics of an infinite transition system is abstracted to get a finite approximation on which temporal-logic/ $\mu$ -calculus model-checking can be directly applied.

The paper proposes two improvements of abstract model-checking which can be applied to infinite abstract transition systems:

iA new combination of fo ...

**Keywords:** abstract interpretation, model-checking, static analysis, transition system, universal safety

#### 4 Model Checking Complete Requirements Specifications Using Abstraction

Ramesh Bharadwaj, Constance L. Heitmeyer

January 1999 **Automated Software Engineering**, Volume 6 Issue 1

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

Although model checking has proven remarkably effective in detecting errors in hardware designs, its success in the analysis of software specifications has been limited. Model checking algorithms for hardware verification commonly use Binary Decision Diagrams (BDDs) to represent predicates involving the many Boolean variables commonly found in hardware descriptions. Unfortunately, BDD representations may be less effective for analyzing software specifications, which usually contain no ...

**Keywords:** SCR, abstraction, model checking, requirements specification, verification

#### 5 Selective Quantitative Analysis and Interval Model Checking: Verifying Different Facets of a System

Sérgio Campos, Edmund M. Clarke, Orna Grumberg

October 2000 **Formal Methods in System Design**, Volume 17 Issue 2

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this work we propose a verification methodology consisting of *selective quantitative timing analysis* and *interval model checking*. Our methods can aid not only in determining if a system works correctly, but also in understanding how well the system works. The selective quantitative algorithms compute minimum and maximum delays over a selected subset of system executions. A linear-time temporal logic (LTL) formula is used to select either infinite paths or finite interv ...

**Keywords:** LTL model checking, quantitative timing analysis, real-time systems, symbolic model checking, temporal logic model checking

#### 6 Using predicate abstraction to reduce object-oriented programs for model checking

William Visser, SeungJoon Park, John Penix

August 2000 **Proceedings of the third workshop on Formal methods in software practice**

Full text available:  [pdf\(385.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While it is becoming more common to see model checking applied to software requirements specifications, it is seldom applied to software implementations. The Automated Software Engineering group at NASA Ames is currently investigating the use of model checking for actual source code, with the eventual goal of allowing software developers to augment traditional testing with model checking. Because model checking suffers from the state-explosion problem, one of the main hurdles for program ...

**Keywords:** browsing

**7 An automata-theoretic approach to modular model checking**

Orna Kupferman, Moshe Y. Vardi

January 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 22 Issue 1

Full text available:  pdf(458.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In modular verification the specification of a module consists of two part. One part describes the guaranteed behavior of the module. The other part describes the assumed behavior of the system in which the module is interacting. This is called the assume-guarantee paradigm. In this paper we consider assume-guarantee specifications in which the guarantee is specified by branching temporal formulas. We distinguish between two approaches. In the first approach ...

**Keywords:** automata, modular verification, temporal logic

**8 Symbolic guided search for CTL model checking**

Roderick Bloem, Kavita Ravi, Fabio Somenzi

June 2000 **Proceedings of the 37th conference on Design automation**

Full text available:  pdf(110.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

CTL model checking of complex systems often suffers from the state-explosion problem. We propose using Symbolic Guided Search to avoid difficult-to-represent sections of the state space and prevent state explosion from occurring. Symbolic Guided Search applies hints to guide the exploration of the state space. In this way, the size of the BDDs involved in the computation is controlled, and the truth of a property may be decided before all states have been explored. In this work, ...

**9 Action Language: a specification language for model checking reactive systems**

Tevfik Bultan

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available:  pdf(299.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a specification language called Action Language for model checking software specifications. Action Language forms an interface between transition system models that a model checker generates and high level specification languages such as Statecharts, RSML and SCR—similar to an assembly language between a microprocessor and a programming language. We show that Action Language translations of Statecharts and SCR specifications are compact and they preserve the structure of the ...

**Keywords:** model checking, reactive systems, specification languages

**10 Composite model-checking: verification with type-specific symbolic representations**

Tevfik Bultan, Richard Gerber, Christopher League

January 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,  
Volume 9 Issue 1

Full text available:  pdf(400.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There has been a surge of progress in automated verification methods based on state exploration. In areas like hardware design, these technologies are rapidly augmenting key phases of testing and validation. To date, one of the most successful of these methods has been symbolic model-checking, in which large finite-state machines are encoded into

compact data structures such as Binary Decision Diagrams (BDDs), and are then checked for safety and liveness properties. However, these techniques ...

**Keywords:** Presburger arithmetic, binary decision diagrams, symbolic model-checking

#### **11 An automata-theoretic approach to branching-time model checking**

Orna Kupferman, Moshe Y. Vardi, Pierre Wolper

March 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 2

Full text available:  [pdf\(379.70 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Translating linear temporal logic formulas to automata has proven to be an effective approach for implementing linear-time model-checking, and for obtaining many extensions and improvements to this verification method. On the other hand, for branching temporal logic, automata-theoretic techniques have long been thought to introduce an exponential penalty, making them essentially useless for model-checking. Recently, Bernholtz and Grumberg [1993] have shown that this exponential penalty can ...

#### **12 Deductive Model Checking**

Henny B. Sipma, Tomás E. Uribe, Zohar Manna

July 1999 **Formal Methods in System Design**, Volume 15 Issue 1

Full text available:  [pdf](#) [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present an extension of classical tableau-based model checking procedures to the case of infinite-state systems, using deductive methods in an incremental construction of the behavior graph. Logical formulas are used to represent infinite sets of states in an abstraction of this graph, which is repeatedly refined in the search for a counterexample computation, ruling out large portions of the graph before they are expanded to the state-level. This can lead to large savings, even i ...

**Keywords:** deductive verification, model checking, reactive systems

#### **13 Model-checking concurrent systems with unbounded integer variables: symbolic representations, approximations, and experimental results**

Tevfik Bultan, Richard Gerber, William Pugh

July 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 4

Full text available:  [pdf\(467.20 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Model checking is a powerful technique for analyzing large, finite-state systems. In an infinite state system, however, many basic properties are undecidable. In this article, we present a new symbolic model checker which conservatively evaluates safety and liveness properties on programs with unbounded integer variables. We use Presburger formulas to symbolically encode a program's transition system, as well as its model-checking computations. All fixpoint calculations are executed symbol ...

**Keywords:** Presburger arithmetic, abstract interpretation, symbolic model checking

#### **14 Modalities for model checking (extended abstract): branching time strikes back**

E. Allen Emerson, Chin-Laung Lei

January 1985 **Proceedings of the 12th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available:  [pdf\(1.19 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

**15 Decoupling synchronization from local control for efficient symbolic model checking of statecharts**

William Chan, Richard J. Anderson, Paul Beame, David H. Jones, David Notkin, William E. Warner

May 1999 **Proceedings of the 21st international conference on Software engineering**

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**Keywords:** binary decision diagrams, fault tolerance, formal methods, formal verification, software specification, statecharts, symbolic model checking

**16 Approximate reachability don't cares for CTL model checking**

In-Ho Moon, Jae-Young Jang, Gary D. Hachtel, Fabio Somenzi, Jun Yuan, Carl Pixley

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**17 Filter-based model checking of partial systems**

Matthew B. Dwyer, Corina S. Pasareanu

November 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 23 Issue 6

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Recent years have seen dramatic growth in the application of model checking techniques to the validation and verification of correctness properties of hardware, and more recently software, systems. Most of this work has been aimed at reasoning about properties of complete systems. This paper describes an automatable approach for building finite-state models of partially defined software systems that are amenable to model checking using existing tools. It enables the application of existing model ...

**Keywords:** assume-guarantee reasoning, filter-based analysis, model checking, software verification and validation

**18 Model checking of hierarchical state machines**

Rajeev Alur, Mihalis Yannakakis

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Model checking is emerging as a practical tool for detecting logical errors in early stages of system design. We investigate the model checking of hierarchical (nested) systems, i.e. finite state machines whose states themselves can be other machines. This nesting ability is common in various software design methodologies and is available in several commercial modeling tools. The straightforward way to analyze a hierarchical machine is to flatten it (thus, incurring an exponential blow up) and a ...

**19 Using "test model-checking" to verify the Runway-PA8000 memory model**

Rajnish Ghughal, Abdel Mokkedem, Ratan Nalumasu, Ganesh Gopalakrishnan

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**20 Isomorph-free model enumeration: a new method for checking relational specifications** 

Daniel Jackson, Somesh Jha, Craig A. Damon

March 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 20 Issue 2Full text available:  [pdf\(273.78 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software specifications often involve data structures with huge numbers of value, and consequently they cannot be checked using standard state exploration or model-checking techniques. Data structures can be expressed with binary relations, and operations over such structures can be expressed as formulae involving relational variables. Checking properties such as preservation of an invariant thus reduces to determining the validity of a formula or, equivalently, finding a model (of the form ...)

**Keywords:** formal specification, model checking, model finding, object models, pruning, relational calculus, relational specifications, symmetry

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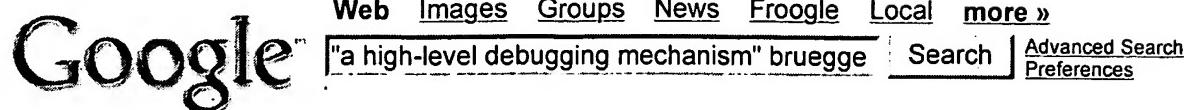


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